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- 1 [Document querying and transformation: XPath on left and right sides of rules: toward compact XML tree rewriting through node patterns](#)



Jean-Yves Vion-Dury

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(224.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XPath [3, 5] is a powerful and quite successful language able to perform complex node selection in trees through compact specifications. As such, it plays a growing role in many areas ranging from schema specifications, designation and transformation languages to XML query languages. Moreover, researchers have proposed elegant and tractable formal semantics [8, 9, 10, 14], fostering various works on mathematical properties and theoretical tools [10, 13, 12, 14]. We propose here a novel way to con ...

- 2 [Efficient algorithms for isomorphisms of simple types](#)



Yoav Zibin, Joseph (Yossi) Gil, Jeffrey Considine

January 2003 **ACM SIGPLAN Notices , Proceedings of the 30th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '03**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(315.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The *first order isomorphism problem* is to decide whether two non-recursive types using product- and function-type constructors, are isomorphic under the axioms of commutative and associative products, and currying and distributivity of functions over products. We show that this problem can be solved in  $O(n \log^2 n)$  time and  $O(n)$  space, where  $n$  is the input size. This result improves upon the  $O(n \log^2 n)$  time ...

**Keywords:** first order isomorphism, linear isomorphism, non-recursive types, simple types, type signature

- 3 [Long-lived renaming made fast](#)



Harry Buhrman, Juan A. Garay, Jaap-Henki Hoepman, Mark Moir

August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 4 [Research session: XML query processing #4: Pattern tree algebras: sets or](#)

sequences?

Stelios Paparizos, H. V. Jagadish

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05****Publisher:** VLDB EndowmentFull text available:  pdf(287.10 KB) Additional Information: full citation, abstract, references, index terms

XML and XQuery semantics are very sensitive to the order of the produced output. Although pattern-tree based algebraic approaches are becoming more and more popular for evaluating XML, there is no universally accepted technique which can guarantee both a correct output order and a choice of efficient alternative plans. We address the problem using hybrid collections of trees that can be either sets or sequences or something in between. Each such collection is coupled with an *Ordering Specifica* ...

5 High-quality code generation via bottom-up tree pattern matching


Philip J. Hatcher, Thomas W. Christopher

January 1986 **Proceedings of the 13th ACM SIGACT-SIGPLAN symposium on Principles of programming languages****Publisher:** ACM PressFull text available:  pdf(1.72 MB) Additional Information: full citation, abstract, references, citings

High-quality local code generation is one of the most difficult tasks the compiler-writer faces. Even if register allocation decisions are postponed and common subexpressions are ignored, instruction selection on machines with complex addressing can be quite difficult. Efficient and general algorithms have been developed to do instruction selection, but these algorithms fail to always find optimal solutions. Instruction selection algorithms based on dynamic programming or complete enumeration al ...

6 SilkRoute: A framework for publishing relational data in XML


Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan

December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4**Publisher:** ACM PressFull text available:  pdf(687.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

**Keywords:** XML, XML storage systems, XQuery7 Independence in CLP languages

María García de la Banda, Manuel Hermenegildo, Kim Marriott

March 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 2**Publisher:** ACM PressFull text available:  pdf(465.79 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Studying independence of goals has proven very useful in the context of logic programming. In particular, it has provided a formal basis for powerful automatic parallelization tools, since independence ensures that two goals may be evaluated in parallel while preserving correctness and efficiency. We extend the concept of independence to constraint logic programs (CLP) and prove that it also ensures the correctness and efficiency of the parallel evaluation of independent goals. Independence ...

**Keywords:** constraint logic programming, independence, parallelism

## 8 A comparison of parallel algorithms for connected components



John Greiner

August 1994 **Proceedings of the sixth annual ACM symposium on Parallel algorithms and architectures**

**Publisher:** ACM Press

Full text available: pdf(880.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a comparison of the pragmatic aspects of some parallel algorithms for finding connected components, together with optimizations on these algorithms. The algorithms being compared are two similar algorithms by Shiloach-Vishkin [22] and Awerbuch-Shiloach [2], a randomized contraction algorithm based on algorithms by Reif [21] and Phillips [20], and a hybrid algorithm [11]. Improvements are given for the first two to improve performance significantly, although without impro ...

## 9 Research session 1: querying xml & semistructured data / query languages: Deciding well-definedness of XQuery fragments



Stijn Vansummen

June 2005 **Proceedings of the twenty-fourth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

**Publisher:** ACM Press

Full text available: pdf(232.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Unlike in traditional query languages, expressions in XQuery can have an undefined meaning (i.e., these expressions produce a run-time error). It is hence natural to ask whether we can solve the well-definedness problem for XQuery: given an expression and an input type, check whether the semantics of the expression is defined for all inputs adhering to the input type. In this paper we investigate the well-definedness problem for non-recursive fragments of XQuery under a bounded-depth type system ...

## 10 XML access control: Access control of XML documents considering update operations



Chung-Hwan Lim, Seog Park, Sang H. Son

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

**Publisher:** ACM Press

Full text available: pdf(298.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML access ...

**Keywords:** XML document, XML update, access control

## 11 Access control: Policy-based dissemination of partial web-ontologies



Saket Kaushik, Duminda Wijesekera, Paul Ammann

November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

**Publisher:** ACM Press

Full text available: pdf(196.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional discretionary access control, without data alteration operators, applied directly on ontologies can result in revealing unintended information because ontologies contain meta-information about objects. As an alternative we provide a constraint logic programming based policy language that can extract, revoke or desensitize sensitive concepts in ontologies prior to requested disclosures. Our policies are stratified Horn

clauses with constructive negation, and our constraint syst uses a f ...

**Keywords:** OWL, RDF, access control, constraint logic programming, control, inference, ontology, policy

## 12 Papers from the 2003 international conference on Database theory: Incremental validation of XML documents

Andrey Balmin, Yannis Papakonstantinou, Victor Vianu

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(676.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate the incremental validation of XML documents with respect to DTDs, specialized DTDs, and XML Schemas, under updates consisting of element tag renamings, insertions, and deletions. DTDs are modeled as extended context-free grammars. "Specialized DTDs" allow the decoupling of element types from element tags. XML Schemas are abstracted as specialized DTDs with limitations on the type assignment. For DTDs and XML Schemas, we exhibit an  $O(m \log n)$  incremental valida ...

**Keywords:** Update, XML, validation

## 13 Joyce: an object-oriented decision tree builder

B. Marcus

May 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(264.86 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Joyce is an object-oriented visual programming environment for nonprogrammers. It permits an application developer to assemble a program by graphically choosing methods from a large library and linking them together using predefined control structures. Joyce also provides the developer with the ability to define data structures, interactive forms, and documentation without programming.

## 14 A new algorithm for partial redundancy elimination based on SSA form

Fred Chow, Sun Chan, Robert Kennedy, Shin-Ming Liu, Raymond Lo, Peng Tu

May 1997 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation PLDI '97**, Volume 32 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new algorithm, SSAPRE, for performing partial redundancy elimination based entirely on SSA form is presented. It achieves optimal code motion similar to lazy code motion [KRS94a, DS93], but is formulated independently and does not involve iterative data flow analysis and bit vectors in its solution. It not only exhibits the characteristics common to other sparse approaches, but also inherits the advantages shared by other SSA-based optimization techniques. SSAPRE also maintains its output in t ...

## 15 Extending constraint logic programming with open functions

Nikolay Pelov, Maurice Bruynooghe

September 2000 **Proceedings of the 2nd ACM SIGPLAN international conference on Principles and practice of declarative programming**

**Publisher:** ACM Press

Full text available:  pdf(511.47 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Adaptive and efficient mutual exclusion (extended abstract)

Hagit Attiya, Vita Bortnikov

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing****Publisher:** ACM PressFull text available: [pdf\(944.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A distributed algorithm is adaptive if its performance depends on  $k$ , the number of processes that are concurrently active during the algorithm execution (rather than on  $n$ , the total number of processes). This paper presents adaptive algorithm for mutual exclusion using only read and write operations. The worst case step complexity cannot be a measure for the performance of mutual exclusion algorithms, because it ...

17 An efficient method of computing static single assignment form

R. Cytron, J. Ferrante, B. K. Rosen, M. N. Wegman, F. K. Zadeck

January 1989 **Proceedings of the 16th ACM SIGPLAN-SIGACT symposium on Principles of programming languages****Publisher:** ACM PressFull text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)18 Statistical and learning methods II: Decision tree parsing using a hidden derivation model

F. Jelinek, J. Lafferty, D. Magerman, R. Mercer, A. Ratnaparkhi, S. Roukos

March 1994 **Proceedings of the workshop on Human Language Technology HLT '94****Publisher:** Association for Computational LinguisticsFull text available: [pdf\(586.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Parser development is generally viewed as a primarily linguistic enterprise. A grammarian examines sentences, skillfully extracts the linguistic generalizations evident in the data, and writes grammar rules which cover the language. The grammarian then evaluates the performance of the grammar, and upon analysis of the errors made by the grammar-based parser, carefully refines the rules, repeating this process, typically over a period of several years.

19 Partial redundancy elimination in SSA form

Robert Kennedy, Sun Chan, Shin-Ming Liu, Raymond Lo, Peng Tu, Fred Chow

May 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 3**Publisher:** ACM PressFull text available: [pdf\(704.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The SSAPRE algorithm for performing partial redundancy elimination based entirely on SSA form is presented. The algorithm is formulated based on a new conceptual framework, the factored redundancy graph, for analyzing redundancy, and represents the first sparse approach to the classical problem and on methods for its solution. With the algorithm description, theorems and their proofs are given showing that the algorithm produces the best possible code by the criteria of computational optimum ...

**Keywords:** code motion, common subexpressions, data flow analysis, partial redundancy, static single assignment form

20 On the equivalence of recursive and nonrecursive datalog programs

Surajit Chaudhuri, Moshe Y. Vardi

July 1992 **Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems****Publisher:** ACM Press

Full text available:  pdf(980.01 KB) Additional Information: full citation, abstract, references, citings, index terms



We study the problem of determining whether a given recursive Datalog program is equivalent to a given nonrecursive Datalog program. We prove triply exponential upper and lower time bounds.

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... A stack model may be viewed as linear layout of Prolog **tree** traversal into 'computer memory' which brings us ... (directed graphs) whose states (**nodes**) are rst ...Cited by 115 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)[XQuery on SQL Hosts - group of 18 »](#)

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Relational Encodings of XQuery's Data Model a • b • o o o o o o ...

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... In order to make structural changes to the **tree**, adding or removing **nodes**,**renaming nodes**, etc... the **tree** must be opened for 'edit'. ...Cited by 48 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)[Similarity Search in XML Data using Cost-Based Query Transformations - group of 10 »](#)

T Schlieder - Proc. 4th Int. Workshop on the Web and Databases, 2001 - page.mi.fu-berlin.de

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S Amer-Yahia, S Cho, D Srivastava - International Conference on Extending Database Technology ( ..., 2002 - Springer

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K Vijay-Shanker, Y Schabes - Proceedings of the 14th conference on Computational ..., 1992 - portal.acm.org

... a In general this method for building a **tree** to be ... with the statements of relationships specified between the **nodes**. This may require **renaming of nodes** in case ...Cited by 47 - [Related Articles](#) - [Web Search](#)[Decision tree parsing using a hidden derivation model - group of 3 »](#)

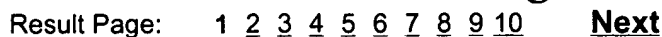
F Jelinek, J Lafferty, D Magerman, R Mercer, A ... - Proceedings of the 1994 Human Language Technology Workshop, 1994 - acl.ldc.upenn.edu

... a **renaming** of a non-terminal. By specifying the two features (name and extension) for each **node** we can reconstruct the parse **tree**. The order of the **nodes** in ...Cited by 61 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)[Schema-Driven Evaluation of Approximate Tree-Pattern Queries - group of 15 »](#)

T Schlieder - Proc. EDBT, pp514-532, Prague, Czech Republic, 2002 - Springer

... mation is a modification of a conjunctive query by inserting a **node**, deleting a **node**, or **renaming** the label of a **node**. In contrast to the **tree**-edit distance [14 ...Cited by 19 - [Related Articles](#) - [Web Search](#)[Synchronous tree-adjointing grammars - group of 3 »](#)

Y Schabes, SM Shieber - Computational Linguistics, 1994 - portal.acm.org  
... of the original **node**, rather than those of the root and foot of the modifier **tree**,  
are manifest in the corresponding **nodes** in the derived **tree**, the adjoining ...  
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PJ Hatcher, TW Christopher - Proceedings of the 13th ACM SIGACT-SIGPLAN symposium on ..., 1986 - portal.acm.org

... are the sets of patterns which may label a **node** of the expression **tree** at code ... are evaluated; and a pattern, in the label, or a **renaming** symbol, subsumed ...

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D Roberts, J Brant, R Johnson - Theory and Practice of Object Systems, 1997 - doi.wiley.com  
 ... In the parse **tree** exam- ple, the method acceptFromAssignmentNode ... optimize method in the Parse- **Node** class. ... specific to optimization, use the **rename** method refac ...

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AW Mazurkiewicz - Information Processing Letters, 1997 - ipipan.waw.pl

... given a **leader**, a spanning **tree** of the considered graph can be constructed by local ... considered here are dened in the usual way by their sets of **nodes** and edges ...

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M Farach, S Muthukrishnan - Proc. 23th International Conference on Automata, Languages ... - cs.rutgers.edu

... gives the depth of each refinement **node** in the d ... 3.2 Unbounded Alphabet Suffix Tree Construction As mentioned earlier, we solve the **renaming** problem which is a ...

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PK Chan, K Karplus - Computer-Aided Design of Integrated Circuits and Systems, ..., 1990 - ieeexplore.ieee.org

... Hence, the resistance matrix R can readily be found by inspection. Evaluating delays for all n **nodes** of a **tree** network requires only n multiplications. ...

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[A compiler for lazy ML](#)

L Augustsson - Proceedings of the 1984 ACM Symposium on LISP and functional ..., 1984 - portal.acm.org

... in Let rec sumleaves (leaf(n)) = n JI sumleaves (**node**(t1, t2 ... abstract syntax **tree**. ... The scope analysis (or **renaming**) assign unique names to all identifiers in the ...

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HV Jagadish, LVS Lakshmanan, D Srivastava, K ... - Proc. DBPL Conf, 2001 - Springer

... without pedigree) or by complete **tree** equality (including ... show that duplicate elimination of **nodes** by value ... operators for aggrega- tion, for **renaming**, and for ...

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L Augustsson - Proceedings of the third ACM SIGPLAN international ..., 1998 - portal.acm.org

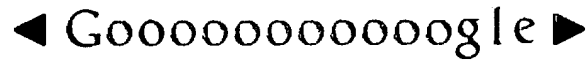
Page 1. Cayenne - a language with dependent types Lennart Augustsson Department of Computing Sciences Chalmers University of Technology ...

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D Novillo - Proceedings of the GCC Developer's Summit, 2004 - [www-ftp.lip6.fr](http://www-ftp.lip6.fr)  
... The **renaming** process in **tree-** into-ssa.c wraps every real and virtual operand with  
an SSA\_NAME **node** which contains the version number and the statement that ...  
Cited by 8 - Related Articles - View as HTML - Web Search

Introduction to the ISO specification language LOTOS. - group of 14 »  
T Bolognesi, E Brinksma - COMP. NETWORKS ISDN SYST., 1987 - [lotos.csi.uottawa.ca](http://lotos.csi.uottawa.ca)  
... the reader may easily find the seven-**node tree** associated to ... We will use this **tree**  
later (it can be found in ... is interpreted as gate **renaming**: gate g' i becomes ...  
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